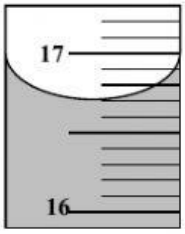
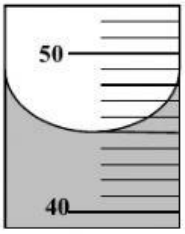
Name: Date: Period:

Homework: Calculating Density

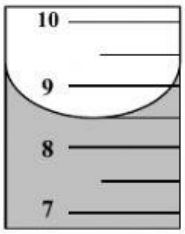
Read the volumes on the graduated cylinders below:



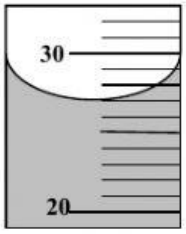
A volume of _____ mL



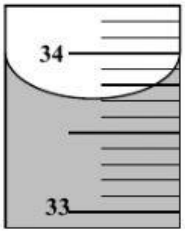
A volume of _____ mL



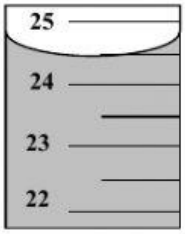
A volume of _____ mL



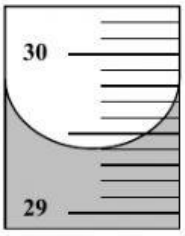
A volume of _____ mL



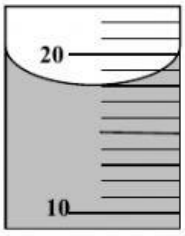
A volume of _____ mL



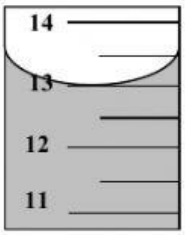
A volume of _____ mL



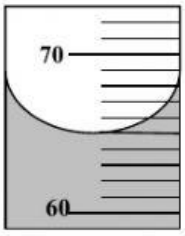
A volume of _____ mL



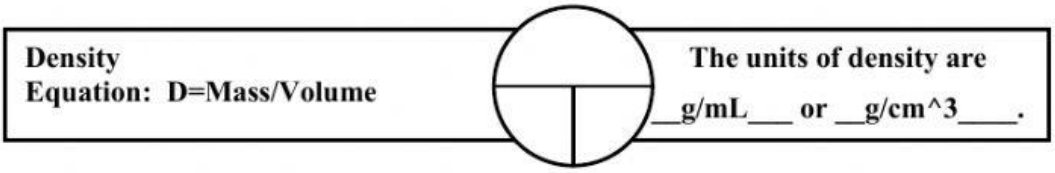
A volume of _____ mL



A volume of _____ mL



A volume of _____ mL



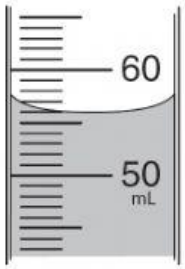
1. What is the density of a liquid at 25°C that has a mass of 4.5 grams and a volume of 12.0 milliliters? **(Show your work to receive credit.)**

2. A student is doing a lab over the rock cycle and he has been given a rock sample to analyze. He is told that the density of the rock is 4.5 g/cm^3 and determines that the volume of the rock is 8 cm^3. Based on this information, calculate the mass of the rock sample. **(Show your work to receive credit.)**

3. What is the density of marble that has a mass of 4.3 g and a volume of 2.7 cm^3? **(Show your work to receive credit.)**

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4. What is the mass of liquid at 30°C that has a density of 2.3 g/mL and the volume shown in the graduated cylinder? **(Show your work to receive credit.)**

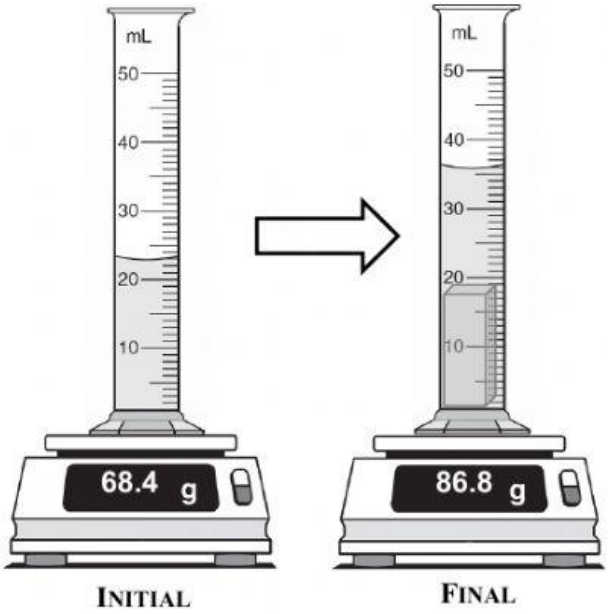


5. A student uses a rubber stopper to close off the end of a test tube. What is the density of this rubber stopper if it has a mass of 3.4 g and a volume of 6.1 cm^3? **(Show your work to receive credit.)**

Density Experiment with a Magnetic Steel Alloy

Mass of weighing bottle (g):	22.35
Mass of weighing bottle + alloy (g):	161.02
Mass of alloy (g):	
Volume of water in graduated cylinder (mL):	40.3
Volume of water in graduated cylinder after alloy submerged (mL):	60.4
Volume of alloy (mL):	
Density of alloy (g/mL):	

1. Use the information already in the data table above to fill in the missing blanks.



INITIAL FINAL

2. The figure shows the lab setup used to determine the density of a solid object before and after the object was submerged. According to the figure, what is the density of the object?

DENSITY = _____

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